Konstantinos Oikonomou

SOFTWARE ENGINEER

📞 0030 6976845216
✉ ikokostas@yahoo.com
in linkedin.com/in/oikonomou-k

💼 WORK EXPERIENCE

Ubitech LTD

07/2020 – Present
Computing Systems, Software & Services Research Group
Athens, Greece

Full Stack & Research Software Engineer

My responsibilities span across multiple European Projects that the company undertakes, as well as the company's commercial solutions:

• Develop and integrate cloud-based solutions for Authentication and Authorization for scalable systems, implement encryption algorithms.

• Develop high-performance and scalable Java applications to satisfy the requirements of European Projects WPs and tasks.

• CI/CD via Git all the generated code and containerize and deploy applications using Docker and Openstack, handle project servers maintenance and update.

• Participate in the interviewing and hiring process of new team members and handle their seamless onboarding to the stack and the team's code standards.

• Involvement in the effort to improve team's agility and remote efficiency via task distribution, enhanced communication methods and mentoring new members.

🖥 **Technologies used:** Java, Spring Framework, Quarkus, JPA, JPBC, Vue, Docker, Openstack, Git, SQL, Mongo, Hibernate, Keycloak, Kafka, Maven, Thymeleaf.

Hellenic Greek Army

11/2019 – 07-2020
Hellenic Army Headquarters
Athens, Greece

Full Stack Developer

Based on my qualifications, I was assigned to KEPYES (Hellenic Army Support Center for Information Technology), where I worked on many critical Java projects. My key responsibilities were:

• Develop, test and refactor old monolithic code into new, sustainable and clean code to improve performance and avoid bad practices and non-scalability.

• Redesign query logic and implement multitier architecture to reduce the average execution time up to 80% for recurring tasks.

🖥 **Technologies used:** Java, J2EE, JDBC, Primefaces, JSF, SQL, Hibernate, Maven, Wildfly, Jenkins, Git, JUnit.

EU Horizon 2020 Argo Project

01/2018 - 09/2018
Department of Electrical and Computer Engineering
Patras, Greece

Software Engineer

The project's aim was the optimization of the WCET (Worst Case Execution Time) of mapping and task scheduling for model-based applications in multi-core heterogeneous parallel systems. My key responsibilities were:

• Academic research to determine algorithm characteristics and applicability.

• Implementation and performance testing of a genetic metaheuristic task scheduling algorithm in Java.

🖥 **Technologies used:** Java, J2EE, SQL, Maven, Git, JUnit.

Think Silicon

09/2016 - 01/2018
Patras Science Park
Patras, Greece

Undergraduate Software Engineer

In order to apply and further develop my thesis I worked on developing and evaluating a backlight compensation algorithm for low power LCD displays. The final algorithm achieved 30% power reduction and was implemented on the company's commercial display controller "Nema DC".

🖥 **Technologies used:** C++, VHDL, Verilog, Python, Arduino Scripting Language.

PUBLICATIONS

28th International Symposium On Power & Timing Modeling, Optimization & Simulation, held in Platja d'Aro, Spain

K.Oikonomou, O. Theodorakopoulos , G. Keramidas, G.Theodoridis

Title: Backlight Compensation Algorithms to Improve Power Consumption in LED- LCD Displays

6th International Congress On Information & Communication Technology (ICICT), held in London, UK

K.Oikonomou, K. Steinhöfel , S. Menzel

Title: A Machine Learning Model for Predicting Fetal Haemoglobin Levels in Sickle Cell Disease Patients

EDUCATION

King's College London
09/2018 – 09/2019
Grade: Pass with Distinction (8.2/10)

Advanced Software Engineering with Management MsC
Thesis: "A Machine Learning Model for Predicting Fetal Haemoglobin Levels in Sickle Cell Disease Patients" | Advisor: Prof. Kathleen Steinhofel

University of Patras
09/2012 – 01/2018
Grade: Pass with Distinction (7.22/10)

Electrical & Computer Engineering Diploma
Thesis: "Optimization Algorithms for Power Consumption on LCD Displays " | Advisor: Prof. Georgios Theodoridis
The Diploma is equivalent to 300 ECTS credits (Bachelor plus Master's)

PROJECTS

SKILLS

- Full stack web development
- Efficient REST API design and consumption
- Apache Kafka, Keycloak
- Vue, HTML/CSS, JSF, Primefaces, Thymeleaf

- Java, JUnit, Git, Maven, Docker
- Development,testing & deployment SDLC phases
- Artificial Intelligence
- Data structures and algorithm theory

- OOP with design patterns
- Spring Framework, Quarkus, JPA, SQL, Mongo, JPBC, Balana
- Technical writing
- Research and development

LANGUAGES

Greek : Mother Tongue English : C2 German : B2

INTERESTS

Blogging: Analyst in fantasy basketball site 'Razzball' under the alias 'Kostas' since 2017. My weekly articles focus on analyzing advanced statistics and predicting real-life player performance based on data models.
Link: **https://basketball.razzball.com/author/kostas**
Music, Basketball, Competitive Debating, Writing